

1. 5,849,992, Dec. 15, 1998, Transgenic production of antibodies in milk; **Harry Meade**, et al., 800/14, 7, 15, 16, 17, 18 [IMAGE AVAILABLE]

US PAT NO: 5,849,992 [IMAGE AVAILABLE]

L1: 1 of 8

ABSTRACT:

A method for the production of monoclonal antibodies in mammal's milk through the creation of transgenic animals that selectively express foreign antibody genes in mammary epithelial cells.

2. 5,843,705, Dec. 1, 1998, Transgenically produced antithrombin III; Paul DiTullio, et al., 800/7; 424/157.1, 535; 435/212; 320.1, 325; 514/8, 21; 530/360, 380, 386, 392, 393, 412, 832; 930/240 [IMAGE AVAILABLE]

US PAT NO: 5,843,705 [IMAGE AVAILABLE]

L1: 2 of 8

ABSTRACT:

This invention relates to transgenically produced human Antithrombin III (tgATIII). The human ATIII produced by the transgenic process of the present invention has a monosaccharide composition which comprises N-acetylgalactosamine (GaINAc) along with fucose, N-acetylglucosamine, galactose, mannose, and N-acetylneuraminic acid/N-glycolyneuraminic acid. The monosaccharide composition differs with that of plasma derived ATIII (phATIII). It has been found that tgATIII has an increased clearance rate when compared to phATIII.

3. 5,827,690, Oct. 27, 1998, Transgenic production of antibodies in milk; **Harry Meade**, et al., 800/7; 530/867 [IMAGE AVAILABLE]

US PAT NO: 5,827,690 [IMAGE AVAILABLE]

L1: 3 of 8

ABSTRACT:

A method for the production of monoclonal antibodies in mammal's milk, through the creation of transgenic animals that selectively express foreign antibody genes in mammary epithelial cells.

4. 5,750,172, May 12, 1998, Transgenic non human mammal milk; **Harry Meade**, et al., 426/580; 435/69.1, 69.4, 69.51, 69.52, 69.6, 183, 215; 800/7 [IMAGE AVAILABLE]

US PAT NO: 5,750,172 [IMAGE AVAILABLE]

L1: 4 of 8

ABSTRACT:

This invention relates to the production of recombinant proteins, such as coagulation factors VIII and IX, tissue plasminogen activator (TPA), urokinase, growth hormone, insulin, interferons, interleukins, peptide hormones and immunoglobulins, in mammals' milk. Particularly, this invention relates to an expression system which when transgenically incorporated into a mammal permits the female species of that mammal to produce the desired recombinant protein in or along with its milk. This invention also relates to the transgenic mammal that produces the desired recombinant product in its milk.

5. 5,688,677, Nov. 18, 1997, Deoxyribonucleic acids containing inactivated hormone responsive elements; Karl M. Ebert, et al., 536/23.5, 24.1 [IMAGE AVAILABLE]

## ABSTRACT:

A DNA comprising at least one inactivated hormone responsive element and a nucleic acid sequence encoding a membrane-associated protein is described. Therapeutic compositions and cells including the DNA are also described. Other aspects of the invention include methods of treating subjects having cystic fibrosis which include administering an effective amount of the DNA to subjects having cystic fibrosis such that functional cystic fibrosis transmembrane conductance regulator is produced by the subject at a level which is not detrimental to the subject. The present invention also pertains to a method of introducing the DNA into a cell such that the membrane-associated protein is produced at a level which is not detrimental to the cell and cells produced by this method. Still other aspects of the invention include a method of assaying DNA for the presence or absence of a hormone responsive element in a species in which the hormone responsive element is functional and a method of selectively breeding female transgenic mammals which produce a protein of interest.

6. 5,272,254, Dec. 21, 1993, Production of streptavidin-like polypeptides; **Harry M. Meade**, et al., 530/350, 300, 825 [IMAGE AVAILABLE]

US PAT NO: 5,272,254 [IMAGE AVAILABLE]

L1: 6 of 8

## ABSTRACT:

DNA sequences, hybrid DNA sequences, recombinant DNA molecules and processes for producing streptavidin-like polypeptides and for producing fused proteins consisting of a streptavidin-like polypeptide joined end to end with another protein, polypeptide, peptide or amino acid. The DNA sequences, hybrid DNA sequences and recombinant DNA molecules of this invention are characterized in that they include DNA fragments that code for streptavidin-like polypeptides. These DNA sequences, hybrid DNA sequences and recombinant DNA molecules and the hosts transformed with them may be employed in the processes of this invention to produce streptavidin-like polypeptides and fused proteins.

7. 5,168,049, Dec. 1, 1992, Production of streptavidin-like polypeptides; **Harry M. Meade**, et al., 435/69.1, 69.7, 69.8, 252.3, 252.33, 252.35, 254.11, 254.2, 320.1, 366 [IMAGE AVAILABLE]

US PAT NO: 5,168,049 [IMAGE AVAILABLE]

L1: 7 of 8

## ABSTRACT:

DNA sequences, hybrid DNA sequences, recombinant DNA molecules and processes for producing streptavidin-like polypeptides and for producing fused proteins consisting of a streptavidin-like polypeptide joined end to end with another protein, polypeptide, peptide or amino acid. The DNA sequences, hybrid DNA sequences and recombinant DNA molecules of this invention are characterized in that they include DNA fragments that code for streptavidin-like polypeptides. These DNA sequences, hybrid DNA sequences and recombinant DNA molecules and the hosts transformed with them may be employed in the processes of this invention to produce streptavidin-like polypeptides and fused proteins.

8. 4,873,316, Oct. 10, 1989, Isolation of exogenous recombinant proteins from the milk of transgenic mammals; **Harry Meade**, et al., 800/7; 435/69.1, 69.2, 69.4, 69.5, 69.6, 69.8; 530/360, 361, 416, 417, 418, 832, 833; 536/23.1, 23.4, 23.5; 800/18 [IMAGE AVAILABLE]

US PAT NO: 4,873,316 [IMAGE AVAILABLE]

L1: 8 of 8

## ABSTRACT:

This invention relates to the production of recombinant proteins in mammals' milk. Particularly, this invention relates to an expression

system comprising the mammal's casein promoter which v transgenically incorporated into a mammal permits the female species that mammal to produce the desired recombinant protein in or along with its milk. This invention also relates to the transgenic mammal that produces the desired recombinant product in its milk.